Serial No. : 10/043,812
Filed : January 10, 2002

Page : 2 of 14

Amendments to the Claims:

This listing of claims replaces all prior versions and listings of claims in the application:

Listing of Claims:

1. (Currently amended) A light emitting device comprising an organic light emitting element comprising:

an anode;

evaporation,

a cathode; and

an organic compound film sandwiched between the anode and the cathode,

wherein the organic compound film comprises at least two compounds selected from the group consisting of:

a blocking compound capable of stopping the movement of holes or electrons and at least one of

a hole injecting compound that receives holes from the anode;

a hole transporting compound that has a hole mobility that is larger than its electron mobility;

an electron transporting compound that has an electron mobility that is larger than its hole mobility; and

an electron injecting compound that receives electrons from the cathode; and a blocking compound capable of stopping the movement of holes or electrons, wherein the two compounds selected are materials capable of undergoing vacuum

wherein the organic compound film comprises a region in which the two compounds are mixed, and

wherein the electric current versus electric voltage property of the organic light emitting elements show a rectification property.

Serial No.: 10/043,812 Filed : January 10, 2002

Page : 3 of 14

2. (Original) A light emitting device according to claim 1, wherein the two compounds are hosts, and a guest is added to the region.

3. (Original) A light emitting device according to claim 2, wherein the guest is a light emitting compound for emitting light.

4-55 (Cancelled)

56. (Withdrawn) A method of manufacturing a light emitting device comprising an organic compound, comprising the steps of:

providing a substrate comprising an electrode:

making a vacuum chamber comprising at least first and second organic compound evaporation sources in a reduced pressure state by reducing the pressure within the vacuum chamber to be equal to or less than 10^{-3} Pa; and

performing evaporation of the first organic compound in the first organic compound evaporation source and a second organic compound contained in the second organic compound evaporation source on the substrate while a pump for reducing the pressure within the vacuum chamber is operated,

wherein each of the first and second organic compound evaporation sources comprises a container comprising an organic compound, and

wherein the second organic compound is evaporated next after the first organic compound is evaporated, under a state in which the first organic compound evaporation source is not heated and in which an atmosphere of the first organic compound remains within the vacuum chamber.

57. (Withdrawn) A method of manufacturing a light emitting device comprising an organic compound, comprising the steps of:

providing a substrate comprising a first electrode;

Serial No.: 10/043,812
Filed: January 10, 2002

Page : 4 of 14

making a vacuum chamber comprising at least first and second organic compound evaporation sources in a reduced pressure state by reducing a pressure within the vacuum chamber to be equal to or less than 10⁻³ Pa;

performing evaporation of the first organic compound in the first organic compound evaporation source and a second organic compound contained in the second organic compound evaporation source on the substrate while a pump for reducing the pressure within the vacuum chamber is operated;

forming the second electrode by evaporation after the second organic compound is evaporated; and

performing a heat treatment in a pressure equal to or less than 10⁻⁴ Pa after the second electrode is formed,

wherein the vacuum chamber further comprises an electrode material evaporation source comprising a container comprising a material for a second electrode,

wherein each of the first and second organic compound evaporation sources comprises a container comprising an organic compound,

wherein the second organic compound is evaporated next after the first organic compound is evaporated, under a state in which the first organic compound evaporation source is not heated and in which an atmosphere of the first organic compound remains within the vacuum chamber.

58. (Withdrawn) A method of manufacturing a light emitting device comprising an organic compound, comprising the steps of:

providing a substrate comprising an electrode;

making a vacuum chamber comprising at least first and second organic compound evaporation sources in a reduced pressure state by reducing a first pressure within the vacuum chamber to be equal to or less than 10⁻³ Pa; and

performing evaporation of the first organic compound in the first organic compound evaporation source and a second organic compound contained in the second organic compound

Serial No.: 10/043,812
Filed: January 10, 2002

Page : 5 of 14

evaporation source on the substrate while a pump for reducing the pressure within the vacuum chamber is operated,

wherein each of the first and second organic compound evaporation sources comprises a container comprising an organic compound, and

wherein the second organic compound is evaporated next after the first organic compound is evaporated, under a state in which a second pressure within the vacuum chamber is higher than the reduced pressure state.

59. (Withdrawn) A method of manufacturing a light emitting device comprising an organic compound, comprising the steps of:

providing a substrate comprising a first electrode;

making a vacuum chamber comprising at least first and second organic compound evaporation sources in a reduced pressure state by reducing a first pressure within the vacuum chamber to be equal to or less than 10⁻³ Pa;

performing evaporation of the first organic compound in the first organic compound evaporation source and a second organic compound contained in the second organic compound evaporation source on the substrate while a pump for reducing the pressure within the vacuum chamber is operated;

forming the second electrode by evaporation after the second organic compound is evaporated; and

performing a heat treatment in a pressure equal to or less than 10⁻⁴ Pa after the second electrode is formed,

wherein the vacuum chamber further comprises an electrode material evaporation source comprising a container comprising a material for a second electrode,

wherein each of the first and second organic compound evaporation sources comprises a container comprising an organic compound,

Serial No.: 10/043,812
Filed: January 10, 2002

Page : 6 of 14

wherein the second organic compound is evaporated next after the first organic compound is evaporated, under a state in which a second pressure within the vacuum chamber is higher than the reduced pressure state.

60. (New) A light emitting device according to claim 1, wherein the light emitting device is included with electrical equipment selected from the group consisting of: a display, a video camera, a digital camera, an image reproduction apparatus, a portable computer, a personal computer, a mobile telephone, and an acoustic equipment.

61. (New) A light emitting device comprising an organic light emitting element comprising:

an anode;

a cathode; and

an organic compound film sandwiched between the anode and the cathode,

wherein the organic compound film comprises at least two compounds selected from the group comprising:

a hole injecting compound that receives holes from the anode; and

a hole transporting compound that has a hole mobility that is larger than its electron mobility;

wherein the two compounds selected are materials capable of undergoing vacuum evaporation,

wherein the organic compound film comprises a region in which the two compounds are mixed, and

wherein the electric current versus electric voltage property of the organic light emitting elements show a rectification property.

62. (New) A light emitting device according to claim 61, wherein the two compounds are hosts, and a guest is added to the region.

Serial No.: 10/043,812 Filed: January 10, 2002

Page : 7 of 14

63. (New) A light emitting device according to claim 62, wherein the guest is a light emitting compound for emitting light.

- 64. (New) A light emitting device according to claim 61, wherein the light emitting device is included with electrical equipment selected from the group consisting of: a display, a video camera, a digital camera, an image reproduction apparatus, a portable computer, a personal computer, a mobile telephone, and an acoustic equipment.
- 65. (New) A light emitting device comprising an organic light emitting element comprising:

an anode;

a cathode; and

an organic compound film sandwiched between the anode and the cathode,

wherein the organic compound film comprises at least two compounds selected from the group comprising:

an electron transporting compound that has an electron mobility that is larger than its hole mobility; and

an electron injecting compound that receives electrons from the cathode;

wherein the two compounds selected are materials capable of undergoing vacuum evaporation,

wherein the organic compound film comprises a region in which the two compounds are mixed, and

wherein the electric current versus electric voltage property of the organic light emitting elements show a rectification property.

66. (New) A light emitting device according to claim 65, wherein the two compounds are hosts, and a guest is added to the region.

al. Attorney's Docket No.: 07977-292001 / US5444

Applicant: Satoshi Seo et al. Serial No.: 10/043,812 Filed: January 10, 2002

Page : 8 of 14

67. (New) A light emitting device according to claim 66, wherein the guest is a light emitting compound for emitting light.

- 68. (New) A light emitting device according to claim 65, wherein the light emitting device is included with electrical equipment selected from the group consisting of: a display, a video camera, a digital camera, an image reproduction apparatus, a portable computer, a personal computer, a mobile telephone, and an acoustic equipment.
- 69. (New) A light emitting device comprising an organic light emitting element comprising:

an anode;

a cathode; and

an organic compound film sandwiched between the anode and the cathode,

wherein the organic compound film comprises at least two compounds selected from the group consisting of:

a blocking compound capable of stopping the movement of holes or electrons and at least one of

a hole injecting compound that receives holes from the anode;

a hole transporting compound that has a hole mobility that is larger than its electron mobility;

an electron transporting compound that has an electron mobility that is larger than its hole mobility; and

an electron injecting compound that receives electrons from the cathode;

wherein the two compounds selected are materials capable of undergoing vacuum evaporation, and

wherein the organic compound film comprises a region in which the two compounds are mixed.

Serial No.: 10/043,812 Filed: January 10, 2002

Page : 9 of 14

70. (New) A light emitting device according to claim 69, wherein the two compounds are hosts, and a guest is added to the region.

- 71. (New) A light emitting device according to claim 70, wherein the guest is a light emitting compound for emitting light.
- 72. (New) A light emitting device according to claim 69, wherein the light emitting device is included with electrical equipment selected from the group consisting of: a display, a video camera, a digital camera, an image reproduction apparatus, a portable computer, a personal computer, a mobile telephone, and an acoustic equipment.
- 73. (New) A light emitting device comprising an organic light emitting element comprising:

an anode;

a cathode; and

an organic compound film sandwiched between the anode and the cathode,

wherein the organic compound film comprises at least two compounds selected from the group comprising:

a hole injecting compound that receives holes from the anode; and

a hole transporting compound that has a hole mobility that is larger than its electron mobility;

wherein the two compounds selected are materials capable of undergoing vacuum evaporation, and

wherein the organic compound film comprises a region in which the two compounds are mixed.

Serial No.: 10/043,812 Filed: January 10, 2002

Page : 10 of 14

74. (New) A light emitting device according to claim 73, wherein the two compounds are hosts, and a guest is added to the region.

- 75. (New) A light emitting device according to claim 74, wherein the guest is a light emitting compound for emitting light.
- 76. (New) A light emitting device according to claim 73, wherein the light emitting device is included with electrical equipment selected from the group consisting of: a display, a video camera, a digital camera, an image reproduction apparatus, a portable computer, a personal computer, a mobile telephone, and an acoustic equipment.
- 77. (New) A light emitting device comprising an organic light emitting element comprising:

an anode;

a cathode; and

an organic compound film sandwiched between the anode and the cathode,

wherein the organic compound film comprises at least two compounds selected from the group comprising:

an electron transporting compound that has an electron mobility that is larger than its hole mobility; and

an electron injecting compound that receives electrons from the cathode;

wherein the two compounds selected are materials capable of undergoing vacuum evaporation, and

wherein the organic compound film comprises a region in which the two compounds are mixed.

78. (New) A light emitting device according to claim 77, wherein the two compounds are hosts, and a guest is added to the region.

Serial No.: 10/043,812 Filed: January 10, 2002

Page : 11 of 14

79. (New) A light emitting device according to claim 78, wherein the guest is a light emitting compound for emitting light.

80. (New) A light emitting device according to claim 77, wherein the light emitting device is included with electrical equipment selected from the group consisting of: a display, a video camera, a digital camera, an image reproduction apparatus, a portable computer, a personal computer, a mobile telephone, and an acoustic equipment.